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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 3

### Complete if Known

Applicati n Number	10/057,826
Filing Date	January 24, 2002
First Named Invent r	Tucker, Charles E.
Group Art Unit	1621
Examiner Name	Unassigned
Attorney Docket Number	021153-001400US

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<u>u</u>	AG	Cao, P., et al., "Ru-BICP-Catalyzed Asymmetric Hydrogenation of Aromatic Ketones," <u>J. Org. Chem.</u> , 64:2127-2129 (1999).	
	AH	Doucet, H, et al., "trans-[RuCl <sub>2</sub> (phosphane) <sub>2</sub> (1,2-diamine)] and Chiral trans-[RuCl <sub>2</sub> (diphosphane)(1,2-dia-mine): Shelf-Stable Precatalysts for the Rapid, Productive, and Stereoselective Hydrogenation of Ketones," <u>Angew. Chem. Int. Ed.</u> , 37(12):1703-1707. (1998)	
	AI	Grey, et al., "Symposium on Homogeneous Catalysis Presented Before the Division of Petroleum Chemistry, Inc.," <u>Am. Chem Soc.</u> , "Novel Anionic Phosphine Transition Metal Hydride Complexes and their Application to the Catalytic Hydrogenation of Polar Organic Compounds," 399-403 (1980).	
	AJ	Hartmann, R., et al., "Noyori's Hydrogenation Catalyst Needs a Lewis acid Cocatalyst for High Activity," <u>Angew. Chem. Int. Ed.</u> , 40(19):3581-3585 (2001).	
	AK	Hashiguchi, S., et al., Asymmetric Transfer Hydrogenation of Aromatic Ketones Catalyzed by Chiral Ruthenium (II) Complexes," <u>J. Am. Soc.</u> , 117:7652-7563 (1995).	
	AL	Jiang, Y., et al., "A New Chiral Bis(oxazolinylmethyl)amine Ligand for Ru-Catalyzed Asymmetric Transfer Hydrogenation of Ketones," <u>J. Am. Chem. Soc.</u> , 120:3817-3818 (1998).	
	AM	Lauhon T., et al., "RNA Aptamers that Bind Flavin and Nicotinamide Redox Cofactors," <u>J. Am. Chem. Soc.</u> , 117(4):1246-1257 (1995).	
	AN	Matsumura, K., et al., "Asymmetric Transfer Hydrogenation of $\alpha$ , $\beta$ -Acetylenic Ketones," <u>J. Am. Chem. Soc.</u> , 119:8738-8739 (1997).	
	AO	Mikami, K. et al., "Asymmetric Activation/Deactivation of Racemic Ru Catalysts for Highly Enantioselective Hydrogenation of Ketonic Substrates," <u>Angew. Chem. Int. Ed.</u> , 39(20):3707-3710 (2000).	
	AP	Noyori, R., et al., "Asymmetric Catalysis by Architectural and Functional Molecular Engineering: Practical Chemo- and Stereoselective Hydrogenation of Ketones," <u>Angew Chem. Int.</u> , 40:40-73 (2001).	
	AQ	Noyori, R., Asymmetric Hydrogenation," <u>Acta Chem. Scandinavia</u> , 50:380-390 (1996).	
	AR	Ohkuma, T., et al., "Asymmetric Activation of Racemic Ruthenium (II) Complexes for Enantioselective Hydrogenation," <u>J. Am. Chem. Soc.</u> , 120:1086-1087 (1998).	
	AS	Ohkuma, T., et al., Practical Enantioselective Hydrogenation of Aromatic Ketones," <u>J. Am. Chem. Soc.</u> , 117:2675-2676 (1995)	
	AT	Ohkuma T., et al., "Asymmetric Hydrogenation of Alkenyl, Cyclopropyl, and Aryl Ketones. RuCl <sub>2</sub> (xylbinap)(1,2-diamine) as a Precatalyst Exhibiting a Wide Scope," <u>J. Am. Chem. Soc.</u> , 120:13529-13530 (1998).	
<u>u</u>	AU	Ohkuma, T., et al., "Asymmetric Hydrogenation of Cyclic $\alpha$ , $\beta$ -Unsaturated Ketones to Chiral Allylic Alcohols," <u>SYNLETT</u> , 467-468 (1997).	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 3 of 3**Complete if Known**

Application Number	10/057,826
Filing Date	January 24, 2002
First Named Inventor	Tucker, Charles E.
Group Art Unit	1621
Examiner Name	Unassigned
Attorney Docket Number	021153-001400US

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AV	Ohkuma, T., et al., "General Asymmetric Hydrogenation of Hetero-aromatic Ketones," <u>Organic Letters</u> , 2(12)1749-1751 (2000).	
	AW	Ohkuma, T., et al., "Practical Enantioselective Hydrogenation of Aromatic Ketones," <u>J. Am. Chem. Soc.</u> 117:2675-2676 (1995).	
	AX	Ohkuma, T., et al., "Preferential Hydrogenation of Aldehydes and Ketones," <u>J. Am. Chem. Soc.</u> , 117:10417-10418 (1995).	
	AY	Ohkuma, T., et al., "Stereoselective Hydrogenation of Simple Ketones Catalyzed by Ruthenium (II) Complexes," <u>J. Org. Chem.</u> , 61:4872-4873 (1996).	
	AZ	Püntener, K., et al., "New Efficient Catalysts for Enantioselective Transfer Hydrogenations," <u>Tetrahedron Letters</u> , 37(45):8165-8168 (1996).	
	BA	R. A. Sánchez-Delgado, et al., "Chemistry and Catalytic Properties of Ruthenium and Osmium Complexes. 3. Development of Highly Active Systems for the Homogeneous Hydrogenation of Aldehydes and Ketones," <u>Inorg. Chem.</u> , 25:1106-1111 (1986).	
	BB	R.A. Sánchez-Delgado, et al., "Homogeneous Hydrogenation of Ketones to Alcohols with Ruthenium complex Catalysts," 202:427-434 (1980).	
	BC	R.A. Sánchez-Delgado, et al., "Homogeneous Hydrogenation of Aldehydes and Ketones by Use of Ruthenium Triphenylphosphine Complexes," <u>J. Mol. Catalysis</u> , 6:303-305 (1979).	
	BD	Sammakia, T., et al., "Transfer Hydrogenation with Ruthenium Complexes of Chiral (Phosphinoferrocenyl) oxazolines," <u>J. Org. Chem.</u> , 62:6104-6105 (1997).	
	BE	Sammakia, T., et al., "Transfer Hydrogenation with Ruthenium Complexes of Chiral (Phosphinoferrocenyl)oxazolines," <u>J. Org. Chem.</u> , 62:6104-6105 (1997).	
	BF	Takehara, J., et al., "Amino alcohol on the ruthenium (II)-catalysed asymmetric transfer hydrogenation of ketones in propan-2-ol," <u>Chem. Commun.</u> , 233-234 (1996).	
	BG	Yang, H., et al., "Ruthenium(II) Complexes with New Tridentate Ligands containing P, N, O Donor Atoms: Highly Efficient Catalysts for Transfer Hydrogenation of Ketones by Propan-2-ol," <u>J. Chem. Soc., Chem. Commun.</u> , 1721-1722 (1995).	

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Examiner Signature		Date Considered	2/11/03
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Sheet **1** of **3**

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Filing Date	January 24, 2002
First Named Inventor	Tucker, Charles E.
Group Art Unit	1621
Examiner Name	Unassigned
Attorney Docket Number	021153-001400US

## **U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
u	AA	4,321,414		Costa	03/23/1982	
	AB	5,716,961		Sands	02/10/1998	
	AC	5,763,688		Ikariya et al.	06/09/1998	
	AD	Pub. No.: US 2002/0016465	A1	Walinsky et al.	04/23/2001	
	AE	Pub. No.: US 2002/0016466	A1	Walinsky et al.	04/23/2001	

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
u	AF	EP	0 901 977	A1	Noyor et al.	03/17/1999		

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